PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

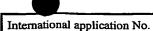
kiO'	PATENT COOPERATION TREATY				
aslati	PCT				
PATENT COOPERATION TREATY PC157200 PCT PC157200 PCT Article 36 and Rule 70)					
	(PCT Article 36 and Rule 70)				
Applicant's or agent's file reference FWA3-19	FOR FURTHER ACTION See Notification of Transmittal of Intern Preliminary Examination Report (Form PCT/IPE				
International application No. PCT/JP2003/009027	International filing date (day/month/year) Priority date (day/month/year) 16 July 2003 (16.07.2003) 17 July 2002 (17.07.200				
nternational Patent Classification (IPC) D01F 9/133, C01B 31/02) or national classification and IPC				
Applicant BUSS	SAN NANOTECH RESEARCH INSTITUTE INC.				
amended and are the ba 70.16 and Section 607 of	mpanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which hat asis for this report and/or sheets containing rectifications made before this Authority (so of the Administrative Instructions under the PCT). of a total of sheets.				
I Basis of the re					
I Basis of the re II Priority III Non-establish IV Lack of unity	eport ment of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicability				
I Basis of the re II Priority III Non-establish IV Lack of unity V Reasoned state citations and e	eport ment of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicabili explanations supporting such statement ments cited				
I Basis of the re II Priority III Non-establish IV Lack of unity V Reasoned state citations and e	eport ment of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicabili explanations supporting such statement				
I Basis of the re II Priority III Non-establish IV Lack of unity V Reasoned state citations and county VI Certain docum VII Certain defect VIII Certain observing	ament of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicabilic explanations supporting such statement ments cited ts in the international application evations on the international application				
I Basis of the re II Priority III Non-establish IV Lack of unity V Reasoned state citations and e	ament of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicability explanations supporting such statement ments cited its in the international application evations on the international application Date of completion of this report				
I Basis of the re II Priority III Non-establish IV Lack of unity V Reasoned state citations and county VI Certain docum VII Certain defect VIII Certain observations	ament of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicability explanations supporting such statement ments cited this in the international application reations on the international application Date of completion of this report 24 August 2004 (24.08.2004)				

International application No.

PCT/JP2003/009027

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

L.	Basis o	of the re	eport		
1.	With r	egard to	the elements of the international application:*		
	\boxtimes	the inte	mational application as originally filed		
	$\overline{\Box}$	the des	cription:		
		pages	, as originally filed		
		pages	, filed with the demand		
		pages	, filed with the letter of		
		the clai			
			as originally filed		
		pages	, as amended (together with any statement under Article 19		
		pages pages	, filed with the demand		
		pages	, filed with the letter of		
	Ш	the dra			
		pages	, as originally filed		
		pages	, filed with the demand		
		pages	, filed with the letter of		
	ti	he seque	ence listing part of the description:		
		pages	, as originally filed		
		pages	, filed with the demand		
		pages	, filed with the letter of		
2.	the in	ternation e element the lar the lar	to the language, all the elements marked above were available or furnished to this Authority in the language in which and application was filed, unless otherwise indicated under this item. In this were available or furnished to this Authority in the following language which is: In guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). In guage of publication of the international application (under Rule 48.3(b)). In guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3).		
3.	With prelin	regard	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:		
		contained in the international application in written form.			
		filed t	ogether with the international application in computer readable form.		
		furnis	hed subsequently to this Authority in written form.		
		furnis	hed subsequently to this Authority in computer readable form.		
	The statement that the subsequently furnished written sequence listing does not go beyond the international application as filed has been furnished.				
			tatement that the information recorded in computer readable form is identical to the written sequence listing has furnished.		
4.		The a	mendments have resulted in the cancellation of:		
1		П	the description, pages		
ì		Ħ	the claims, Nos.		
		Ħ	the drawings, sheets/fig		
5.	. 🗆	This re	eport has been established as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**		
١	in th and l	is repo 70.17).	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16		
*	* Any i	replacei	ment sheet containing such amendments must be referred to under item 1 and annexed to this report.		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP03/09027

. Statement						
Novelty (N)	Claims	1-11	YES			
	Claims		NO NO			
Inventive step (IS)	Claims	1-11	YES			
	Claims		· NO			
Industrial applicability (IA)	Claims	1-11	YES			
	Claims		NO			

2. Citations and explanations

Claims 1, 2

None of the documents describes providing a post-reaction gas cooling device, second fine carbon fiber separation and recovery device, and gas recycling device; the subject matter of these claims is novel. Also, the post-reaction gas cooling device condenses and separates condensing components and unreacted raw material and the like, such as water produced by the reaction in the gas, and thus achieves the effect of preventing clogging of the pipes, so it involves an inventive step. Claims 3-11

The inventions of these claims cite the aforesaid claims 1 and 2, and pertain to a method for producing fine carbon fiber with additional technical limitations, so like claims 1 and 2 they are novel and involve an inventive step.

Form PCT/ IPEA/409 (Box V) (July 1998)